

## **RAW SEQUENCE LISTING**

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Application Serial Number: 10/513,961  
Source: PCT  
Date Processed by STIC: 11-17-04

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/513,961

DATE: 11/17/2004

TIME: 14:42:35

Input Set : A:\231119.txt  
 Output Set: N:\CRF4\11172004\J513961.raw

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3 <110> APPLICANT: BOYD, Michael R.
4      BOKESCH, Heidi R.
5      O'KEEFE, Barry R.
6      McKEE, Tawnya C.
8 <120> TITLE OF INVENTION: SCYTOVIRINS AND RELATED CONJUGATES, FUSION PROTEINS, NUCLEIC
9 ACIDS, VECTORS, HOST CELLS, COMPOSITIONS, ANTIBODIES, AND METHODS
10 OF USING SCYTOVIRINS
12 <130> FILE REFERENCE: 231119
C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/513,961
C--> 14 <141> CURRENT FILING DATE: 2004-11-10
14 <150> PRIOR APPLICATION NUMBER: PCT/US03/15991
15 <151> PRIOR FILING DATE: 2003-05-15
17 <150> PRIOR APPLICATION NUMBER: 60/381,322
18 <151> PRIOR FILING DATE: 2002-05-16
20 <160> NUMBER OF SEQ ID NOS: 7
22 <170> SOFTWARE: PatentIn version 3.2
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 95
26 <212> TYPE: PRT
27 <213> ORGANISM: Scytonema varium
30 <220> FEATURE:
31 <221> NAME/KEY: MISC_FEATURE
32 <222> LOCATION: (7)..(55)
33 <223> OTHER INFORMATION: Disulfide cross-link between Cys at position 7 and Cys at
34      position 55
36 <220> FEATURE:
37 <221> NAME/KEY: MISC_FEATURE
38 <222> LOCATION: (20)..(26)
39 <223> OTHER INFORMATION: Disulfide cross-link between Cys at position 20 and Cys at
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42 <220> FEATURE:
43 <221> NAME/KEY: MISC_FEATURE
44 <222> LOCATION: (32)..(38)
45 <223> OTHER INFORMATION: Disulfide cross-link between Cys at position 32 and Cys at
46      position 38
48 <220> FEATURE:
49 <221> NAME/KEY: MISC_FEATURE
50 <222> LOCATION: (68)..(74)
51 <223> OTHER INFORMATION: Disulfide cross-link between Cys at position 68 and Cys at
52      position 74
54 <220> FEATURE:
55 <221> NAME/KEY: MISC_FEATURE
56 <222> LOCATION: (80)..(86)

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57 <223> OTHER INFORMATION: Disulfide cross-link between Cys at position 80 and Cys at  
58 position 86  
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62 Gly Ser Gly Pro Thr Tyr Cys Trp Asn Glu Ala Asn Asn Pro Gly Gly  
63 1 5 10 15  
66 Pro Asn Arg Cys Ser Asn Asn Lys Gln Cys Asp Gly Ala Arg Thr Cys  
67 20 25 30  
70 Ser Ser Ser Gly Phe Cys Gln Gly Thr Ser Arg Lys Pro Asp Pro Gly  
71 35 40 45  
74 Pro Lys Gly Pro Thr Tyr Cys Trp Asp Glu Ala Lys Asn Pro Gly Gly  
75 50 55 60  
78 Pro Asn Arg Cys Ser Asn Ser Lys Gln Cys Asp Gly Ala Arg Thr Cys  
79 65 70 75 80  
82 Ser Ser Ser Gly Phe Cys Gln Gly Thr Ala Gly His Ala Ala Ala  
83 85 90 95  
86 <210> SEQ ID NO: 2  
87 <211> LENGTH: 107  
88 <212> TYPE: PRT  
89 <213> ORGANISM: Volvox carteri  
91 <400> SEQUENCE: 2  
93 Gln Lys Ser Ala Ser Tyr Tyr Trp Asn Glu Ala Thr Asn Pro Leu Gly  
94 1 5 10 15  
97 Pro Asn Arg Cys Asn Pro Ala Gly Arg Gly Cys Glu Cys Asp Gly Leu  
98 20 25 30  
101 Arg Thr Cys Ser Ser Tyr Gly Trp Cys Gln Gly Ile Ser Arg Pro Thr  
102 35 40 45  
105 Ser Pro Pro Pro Ala Ala Cys Gln Gln Lys Ser Ala Ser Tyr Tyr  
106 50 55 60  
109 Trp Asn Glu Ala Lys Asn Pro Leu Gly Pro Asn Arg Cys Asn Pro Ala  
110 65 70 75 80  
113 Gly Arg Gly Cys Glu Cys Asp Gly Leu Arg Thr Cys Ser Gln Tyr Gly  
114 85 90 95  
117 Trp Cys Gln Gly Thr Ala Arg Thr Arg Arg Ala  
118 100 105  
121 <210> SEQ ID NO: 3  
122 <211> LENGTH: 42  
123 <212> TYPE: PRT  
124 <213> ORGANISM: Scytonema varium  
126 <400> SEQUENCE: 3  
128 Asn Arg Cys Ser Asn Asn Lys Gln Cys Asp Gly Ala Arg Thr Cys Ser  
129 1 5 10 15  
132 Ser Ser Gly Phe Cys Gln Gly Thr Ser Arg Lys Pro Asp Pro Gly Pro  
133 20 25 30  
136 Lys Gly Pro Thr Tyr Cys Trp Asp Glu Ala  
137 35 40  
140 <210> SEQ ID NO: 4  
141 <211> LENGTH: 43  
142 <212> TYPE: PRT  
143 <213> ORGANISM: Urtica dioica

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145 <400> SEQUENCE: 4  
147 Gln Arg Cys Gly Ser Leu Gly Gly Gly Thr Cys Pro Gly Leu Arg  
148 1 5 10 15  
151 Cys Cys Ser Ile Trp Gly Trp Cys Gly Asp Ser Glu Pro Tyr Cys Gly  
152 20 25 30  
155 Pro Ser Cys Glu Thr Asn Cys Trp Asp Asp Glu  
156 35 40  
159 <210> SEQ ID NO: 5  
160 <211> LENGTH: 44  
161 <212> TYPE: PRT  
162 <213> ORGANISM: Hevea brasiliensis  
164 <400> SEQUENCE: 5  
166 Glu Gln Cys Gly Arg Gln Ala Gly Gly Lys Leu Cys Pro Asn Asn Leu  
167 1 5 10 15  
170 Cys Cys Ser Gln Trp Gly Trp Cys Gly Ser Thr Asp Glu Tyr Cys Ser  
171 20 25 30  
174 Pro Asp His Asn Cys Gln Ser Asn Cys Lys Asp Ser .  
175 35 40  
178 <210> SEQ ID NO: 6  
179 <211> LENGTH: 29  
180 <212> TYPE: PRT  
181 <213> ORGANISM: Amaranthus caudatus  
183 <400> SEQUENCE: 6  
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186 1 5 10 15  
189 Phe Gly Tyr Cys Gly Lys Gly Pro Lys Tyr Cys Gly Arg  
190 20 25  
193 <210> SEQ ID NO: 7  
194 <211> LENGTH: 44  
195 <212> TYPE: PRT  
196 <213> ORGANISM: Triticum aestivum  
198 <400> SEQUENCE: 7  
200 Ile Lys Cys Gly Ser Gln Ala Gly Gly Lys Leu Cys Pro Asn Asn Leu  
201 1 5 10 15  
204 Cys Cys Ser Gln Trp Gly Phe Cys Gly Leu Gly Ser Glu Phe Cys Gly  
205 20 25 30  
208 Gly Gly Cys Gln Ser Gly Ala Cys Ser Thr Asp Lys  
209 35 40

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/513,961

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L:14 M:270 C: Current Application Number differs, Replaced Current Application No

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date